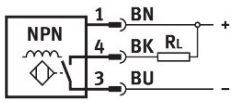
Proximity sensor
SIES-8M-NS-24V-K-5,0-M8D

Part number: 551399





Data sheet

Feature	Value
Design	For T-slot
Conforms to standard	EN 60947-5-2
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC mark	KC-EMV
Note on materials	RoHS-compliant
Measured variable	Position
Measuring principle	Inductive
Rated operating distance	1.5 mm
Reduction factors	Aluminium = 0.62 Stainless steel V2A = 0.95 Copper = 0.6 Brass = 0.72 Steel St 37 = 1.0
Ambient temperature	-25 °C...70 °C
Repetition accuracy with constant conditions	<= 0.05 mm, approach from the side
Switching output	NPN
Switching element function	N/O contact
Switch-on time	0.1 µs
Max. switching frequency	4500 Hz
Max. output current	150 mA
Max. switching capacity DC	4.5 W
Voltage drop	2 V
Inductive protective circuit	Integrated
Min. load current	0 mA
Off-state current	10 µA
Short circuit current rating	Pulsed
Overload protection	Available
Operational voltage range DC	10 V...30 V

Feature	Value
Residual ripple	10 %
No-load supply current	10 mA
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Screw-type lock Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Connection outlet orientation	In-line
Material electrical contact	Gold-plated brass
Test conditions cable	Bending strength: to Festo standard Test conditions on request Energy chain: > 5 million cycles, bending radius 75 mm
Cable length	5 m
Cable characteristic	Standard/suitable for energy chains
Cable sheath colour	Grey
Material cable sheath	TPE-U(PU)
Material insulating sheath	PVC
Size	Slot 8
Type of mounting	Flush with T-slot Screw-clamped Insertable in the slot from above
Tightening torque	0.6 Nm
Mounting position	optional
Mounting type	Flush
Housing colour	Black
Material housing	Brass, nickel-plated PA PUR High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-5 °C...70 °C
Degree of protection	IP65 IP67
Insulation voltage	50 V
Immunity to surge	0.8 kV
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1
Pollution degree	3
Additional information for sensor selection	For T-slot
Electrical output	NPN
Selection of sensor design	Special design